AirConnect® Wireless PCI Card User Guide

3CRWE777A

http://www.3com.com/
http://www.3com.com/productreg

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1 OVERVIEW

Introduction

3Com's Wireless PCI Card is an 11 Mbps wireless network adapter that seamlessly integrates with existing Ethernet networks to support applications such as mobile users or temporary conferences. This solution offers a high data rate and reliable wireless connectivity with considerable cost savings over wired LANs (which include long-term maintenance overhead for cabling). Just install PCI adapters into your notebook PCs, and start networking.

Using this card in conjunction with 3Com's AirConnect Access Point, you can create an instant network that integrates seamlessly with 10 Mbps Ethernet LANs. Moreover, moving or expanding your network is as easy as moving or installing additional access points - no wires!

Package Checklist

The Wireless PCI Card package includes:

- One wireless PCI card (3CRWE777A)
- One CD containing drivers and utilities
- This *Wireless PCI Card User Guide*
- One registration card (please complete and return)

Please inform your dealer if there are any incorrect, missing or damaged parts. If possible, retain the carton, including the original packing materials. Use them again to repack the product in case there is a need to return it for repair.

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Hardware Description

3Com's Wireless PCI Card supports 1, 2, 5.5, and 11 Mbps half-duplex connections to Ethernet networks. This card is fully compliant with 2.4GHz DSSS CSMA/CA wireless networking as defined in IEEE 802.11b. It is designed to complement PCI Local Bus computers. It supports Windows 95/98/NT/2000/Me.

Features

- 1, 2, 5.5, and 11 Mbps data rate.
- Wireless connection without the difficulties and cost of cabling
- Greater flexibility to locate or move networked PCs
- Integrates with or replaces wired LANs at dramatically lower cost than wired alternatives
- Seamless connectivity to wired Ethernet LANs augments existing networks quickly and easily
- Easy installation
- Operating range up to 30m (100 ft) at 11 Mbps , up to 100m (300 ft) at 5.5 Mbps and lower
- Point-to-point and point-to-multipoint access
- Direct Sequence Spread-Spectrum (DSSS) technology provides robust, interference-resistant and secure wireless connection
- Supports a wide range of operating systems (Win95/98/NT/2000/Me)
- Plug-and-Play
- Provides a user-friendly interface for configuration
- Enhances your network security with WEP data encryption

Applications

3Com wireless products offer a fast, reliable, cost-effective solution for wireless client access to the network in applications like these:

- Remote access to corporate network information:

  E-mail, file transfer and terminal emulation.

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- Difficult-to-wire environments:

  Historic or old buildings, asbestos installations, and open areas where wiring is difficult to employ.
- Frequently changing environments:

  Retailers, manufacturers and banks who frequently rearrange the workplace and change location.
- Temporary LANs for special projects or peak times:

  Trade shows, exhibitions and construction sites that need a temporary setup for a short time period.

  Retailers, airline, and shipping companies that need additional workstations for peak periods.

  Auditors who require workgroups at customer sites.
- Access to database for mobile workers:

  Doctors, nurses, retailers, and white-collar workers who need access to databases while being mobile in the hospital, retail store, or office campus.
- SOHO (Small Office and Home Office) users:

  SOHO environments needing easy and quick installation of a small computer network.

Status LED Indicator

The Wireless PCI Card includes one status LED indicator, as described in the following figure and table.

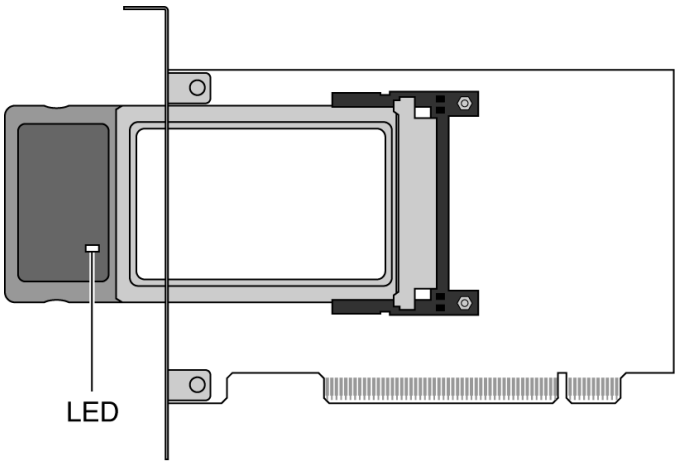

Figure 1

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Always On	Blinking	Off
■ Power is being supplied to the PCI card. ■ A valid connection to the network exists. ■ The PCI card is transmitting or receiving data.	The PCI card is attempting to associate with an access point.	No power is being supplied to the PCI card.

System Requirements

Before you install the wireless PCI card, check your system for the following requirements:

- Windows 95/98/NT/2000/Me operating system (prepare the Windows installation CD-ROM for use during installation).
- A minimum of 500 Kbytes of free disk space for installing the driver and utility program.
- Other IEEE 802.11b-compliant devices installed in your service area (such as 3Com's AirConnect access point and wireless PC card.

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2 INSTALLATION

Introduction

Before Installing the 3Com Wireless PCI Card, be sure you read and follow the precautions listed here:

- Network cards are sensitive to static electricity. To protect the card, always touch the metal chassis of your computer before handling the card.
- Be sure to turn off power to your computer before you plug in or remove a wireless PCI card.

Card Installation Procedure

1. **Turn off power to your desktop computer and unplug the power cord.**
2. **Remove the cover of your computer.**
3. **Locate an empty PCI slot and remove its slot cover. Save the screw.**
4. **Carefully insert the PCI card into the selected slot until it seats snugly (see Figure 2). The shielded part of the wireless PCI card protrudes from the card faceplate and juts out beyond the back panel of your computer when the card is installed.**

CAUTION: DO NOT REMOVE the shielded part of the PCI card from the printed circuit carrier.

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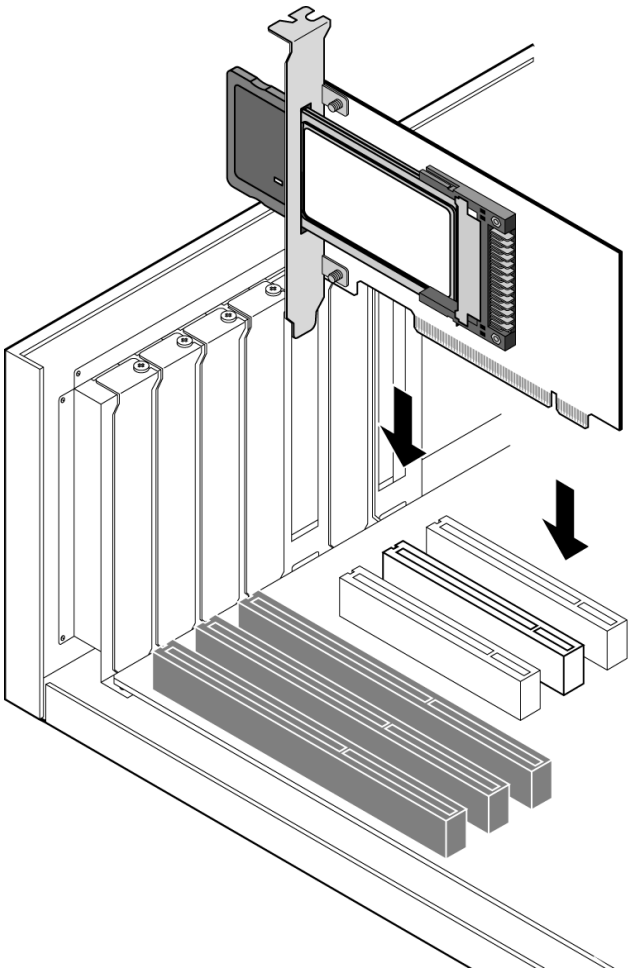

Figure 2

5 **Secure the card with the screw that you removed earlier.**

6 **Replace the cover of your PC and plug in the power cord.**

7 **Turn on the power to your computer.**

8 **Depending on your operating system, proceed to either "Windows 95/98/2000/Me Driver Installation Procedure" or "Windows NT 4.0 Driver Installation Procedure".**

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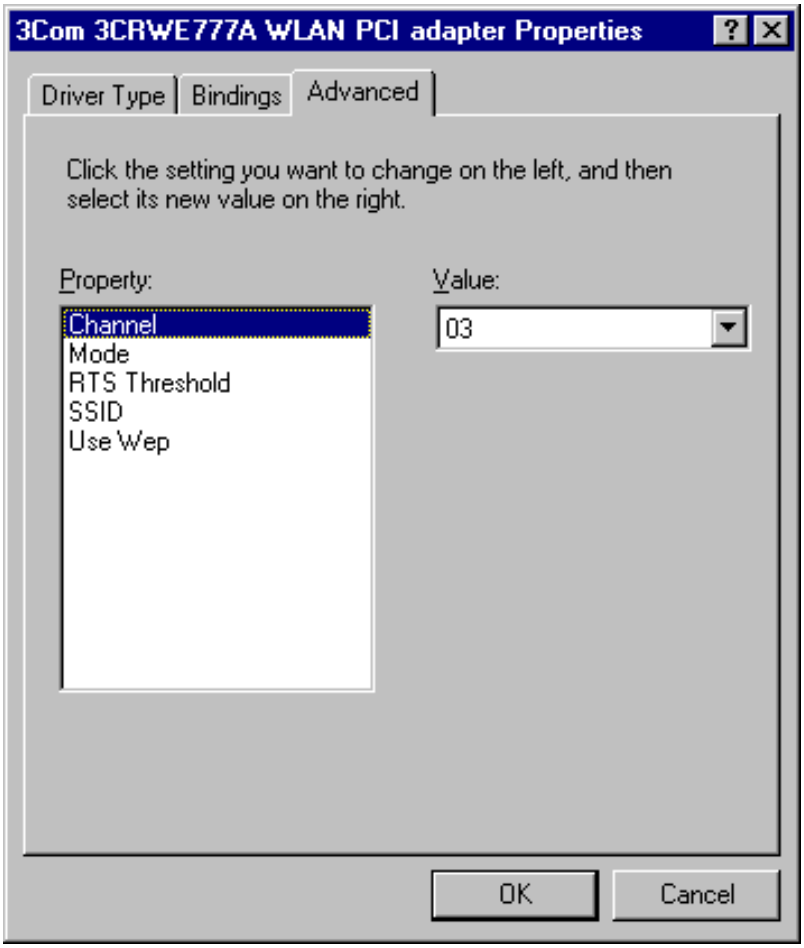
Windows 95/98/2000/Me Driver Installation Procedure

Your *End User Utilities* CD contains all the software drivers available for the 3Com Wireless PCI Card. New or updated drivers can be downloaded from 3Com's web site at http://www.3Com.com.

1. **Windows 95/98/2000/Me will automatically detect the new hardware and prompt you to install the driver. Click "Next" to find the driver.**
2. **Insert the CD and click "Next".**
3. **Specify the CD drive and click "Next". The setup program automatically finds the appropriate .INF file and driver for your operating system.**
4. **Click "Next" to copy files from the CD.**
5. **The Adapter Properties window appears, showing the Advanced tab screen.**



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6 **If you are setting up an ad hoc wireless LAN, set "Channel" to the same radio channel as that used by the other wireless clients in your group. However, if you are connecting to a network via an access point, then use the same channel as that used by the access point (access point default: 3).**

7 **Set "Mode" to ad hoc or infrastructure, depending on the type of network you want to connect to. Click *OK* (default: infrastructure).**

8 **Set "RTS Threshold" to the same as that used by the other devices in your network (access point default: 2432).**

9 **Set the "SSID" identifier to the same as that used by the ad hoc workgroup or access point you want to connect to (access point default: 101).**

10 **For more secure data transmission, set the "Use WEP" to "Enabled" to ensure wireless network security. The advanced Wired Equivalent Privacy (WEP) is implemented in this card to prevent unauthorized access (default: Disabled).**

If the access point you wish to connect to is set for encryption, you must also enable encryption on the wireless client. Click Encryption in the Wireless LAN Configuration Utility to go to screens where you can enable and configure encryption.

You must set the wireless client for the same encryption algorithm and shared key values as the access point it will associate with. Save the configuration settings and exit by clicking OK.

11 **Click "*OK*". At this point, depending on how your computer is configured, Windows 98/98SE may prompt you to insert the Windows 98/98SE installation CD to copy required system files. Follow the instructions displayed, then click "Finish."**

12 **Restart your computer when prompted.**

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Windows NT 4.0 Driver Installation Procedure

1. From the Windows desktop, select "Control Panel," double-click "Network," click "Adapters," and then click the "Add" button on the Network dialog box.
2. Windows NT will present a list of all its supported adapters. Click "Have Disk" to continue.
3. Windows NT will ask for the drive/path containing the Windows NT drivers. Insert the CD into the drive, specify the drive letter of the CD, then click "OK."
4. When prompted, select *3Com 3CRWE777A WLAN PCI adapter*, then click "OK."
5. Windows NT will attempt to locate the SYS and INF files in the specified path. If you have entered the path name correctly, Windows NT should copy the appropriate drivers to the Windows NT system. You must confirm the selection by clicking "OK."
6. The Adapter Properties dialog box appears. Configure the card as described below, and click "OK."

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- **Mode** - Set to "ad hoc" or "infrastructure", depending on the type of network you want to connect to.
- **SSID** - Set the "SSID" identifier to the same as that used by the ad hoc workgroup or access point you want to connect to. (access point default: 101).
- **Channel** - If you are setting up an ad hoc wireless LAN, set the channel number to the same radio channel used by the other wireless clients in your group. However, if you are connecting to a network via an access point, then use the same channel as that used by the access point (access point default: 3).
- **RTS Threshold** - Set the RTS threshold to the same as that used by the other devices in your network (default: Disabled).
- **Use WEP** - For more secure data transmission, set this field to "Enabled" to ensure wireless network security. Wired Equivalent Privacy (WEP) is implemented in the PCI card to prevent unauthorized access (default: Disabled).

If the access point you wish to connect to is set for encryption, you must also enable encryption on the wireless client. Click Encryption in the Wireless LAN Configuration Utility to go to screens where you can enable and configure encryption.

You must set the wireless client for the same encryption algorithm and shared key values as the access point it will associate with. Save settings and exit by clicking OK.

7 If desired, select the Services tab and Click "Add..." to install the network protocols you want to use, such as IPX/SPX, NetBEUI or TCP/IP.

If you install TCP/IP, be sure to set the appropriate gateway, DNS server, and domain for your network. If you install an IPX/SPX-compatible protocol, then you also need to install the Client for NetWare Networks.

8 Click "Close."

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9 **Restart your computer when prompted.**

10 **To ensure that the 3Com Wireless PCI Card works correctly, go to the Windows *Control Panel* and double-click *Devices*. The 3Com Wireless PCI Card driver status should be "Started."**

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3 NETWORK CONFIGURATION AND PLANNING

Introduction

3Com's Wireless Solution supports a stand-alone wireless network configuration, as well as an integrated configuration with 10 Mbps Ethernet LANs.

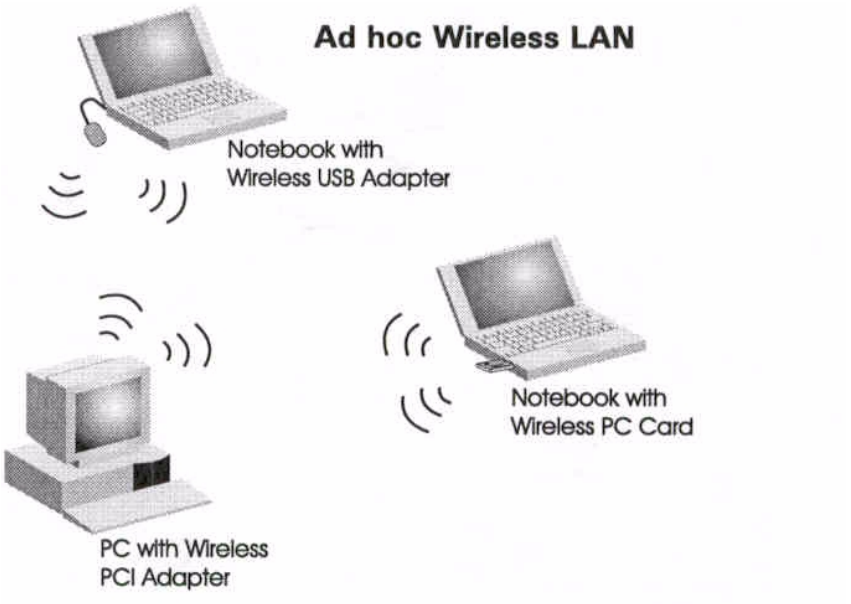
The Wireless PCI card can be configured as:

- Ad hoc for departmental or SOHO LANs
- Infrastructure for enterprise LANs

Network Topologies

Ad hoc Wireless LAN

An ad hoc wireless LAN consists of a group of computers, each equipped with a wireless adapter, connected via radio signals as an independent wireless LAN. Computers in a specific ad hoc wireless LAN must therefore be configured to the same radio channel. An ad hoc wireless LAN can be used for a branch office or SOHO operation.



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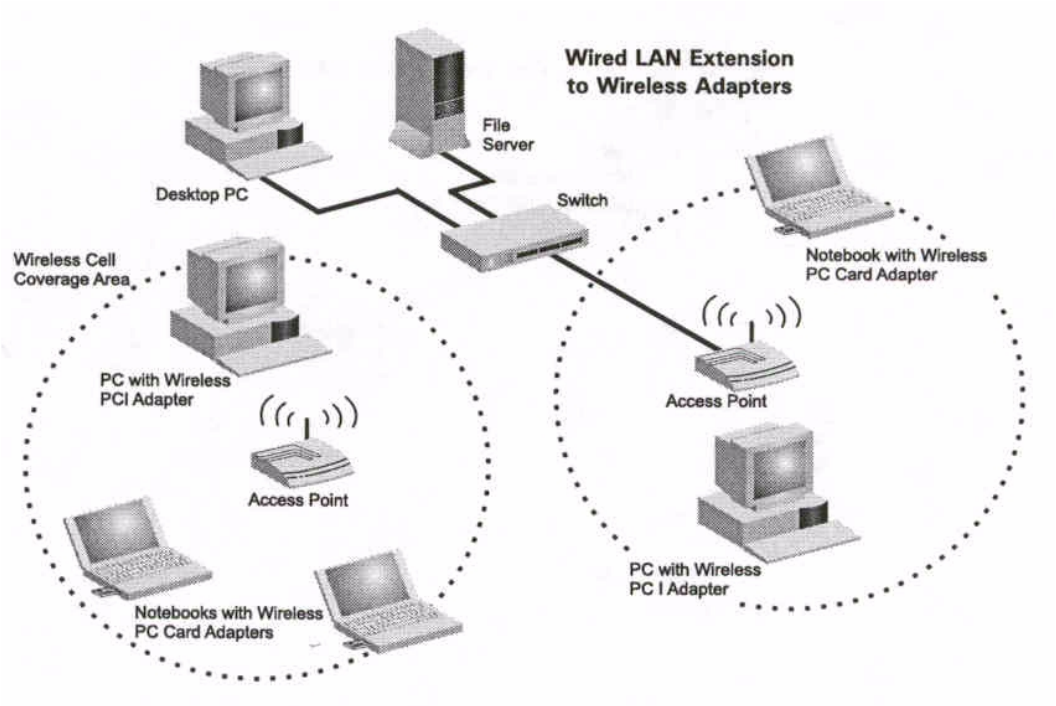
Infrastructure Wireless LAN

The wireless PCI card can also provide access to a wired LAN for wireless workstations. An integrated wired and wireless LAN is called an infrastructure configuration. A Basic Service Set (BSS) consists of a group of wireless PC users, and an access point that is directly connected to the wired LAN. Each wireless PC in this BSS can talk to any computer in its wireless group via a radio link, or access other computers or network resources in the wired LAN infrastructure via the access point.

The infrastructure configuration not only extends the accessibility of wireless PCs to the wired LAN, but also doubles the effective wireless transmission range for wireless PCs by passing their signal through one or more access points.

A wireless infrastructure can be used for access to a central database, or for connection between mobile workers, as shown in the following figure.



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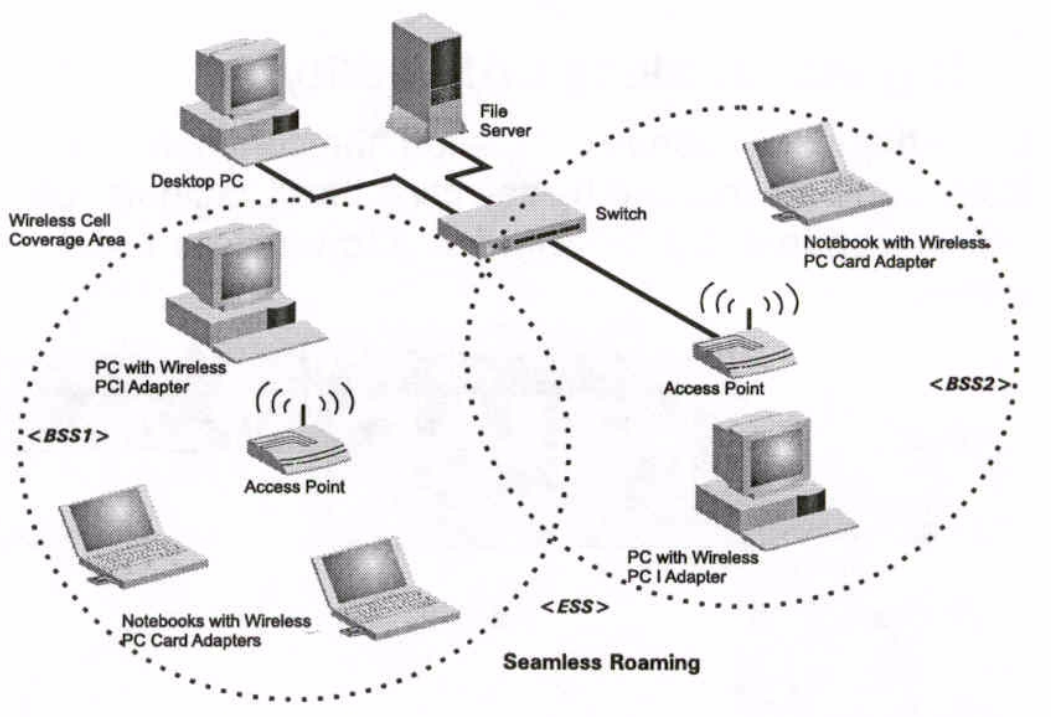
Setting the Communication Domain

Stationary Wireless PCs

The Basic Service Set (BSS) is the communication domain for each 3Com wireless access point (AP). For wireless PCs that do not need to support roaming, set the domain identifier (SSID) for the wireless card to the BSSID of the AP you want to connect to. Ask your administrator for the BSSID of the AP point he or she wants you to connect to.

Roaming Wireless PCs

A wireless infrastructure can also support roaming for mobile workers. More than one access point can be configured to create an Extended Service Set (ESS). By placing the access points so that a continuous coverage area is created, wireless users within this ESS can roam freely. All AirConnect cards and access points within a specific ESS must be configured with the same SSID and to the same radio channel.



Before setting up an ESS for roaming, you need to choose a clear radio channel and ideal location for the access points to maximize performance.

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4 CONFIGURATION AND DIAGNOSTIC UTILITY

Introduction

3Com's Wireless PCI Card provides free optional management software for quick network configuration and easy diagnostics. The CD that comes with your package contains a user-friendly utility for configuring the wireless PCI card.

Installing the Wireless LAN Configuration Utility

To install this utility:

1. **Insert the CD in your computer's CD-ROM drive. The AirConnect main menu appears.**
2. **Click *Installation for Windows* from the menu screen.**
3. **Click *Install WLAN Applications* from the menu.**
4. **Follow the onscreen instructions to finish installation.**

Using the Wireless LAN Configuration Utility

Once the installation is completed, the configuration utility can be accessed by selecting the "Configuration Utility" icon from the "3Com AirConnect Utility" folder.

The configuration software includes the following functions:

- Link Information - Allows you to monitor network status.
- Configuration - Allows you to configure parameters for the wireless adapter.
- Encryption - Provides RC4 security control.

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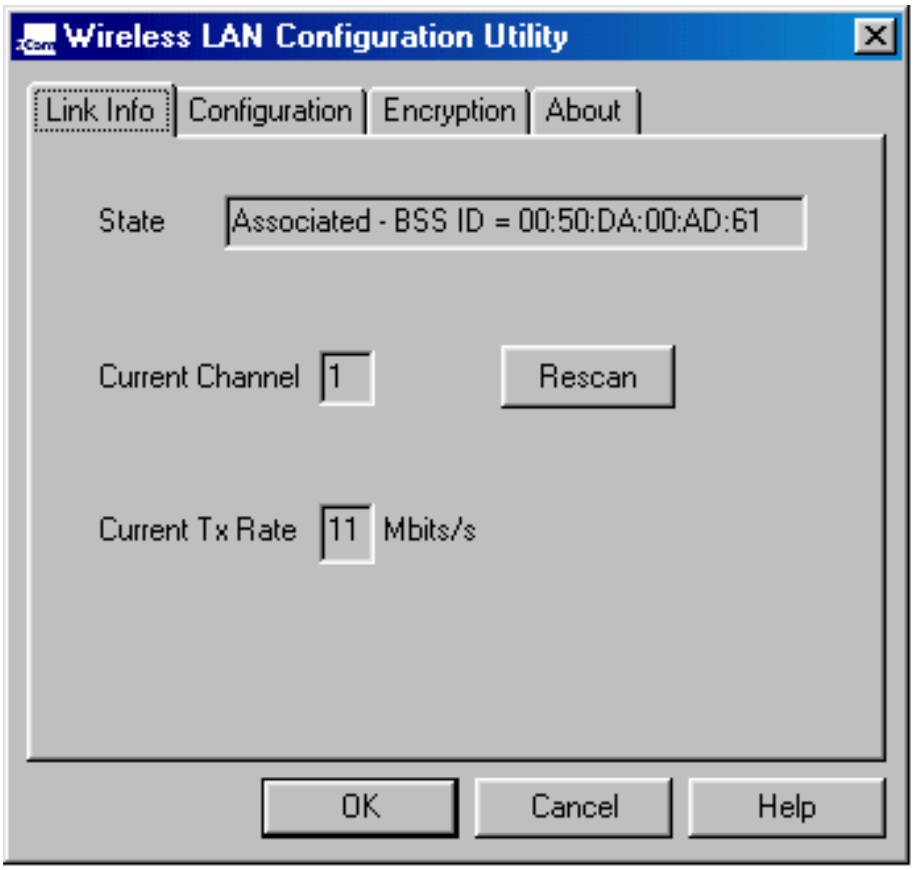
Link Information Screen

When you start the wireless LAN utility, the hardware information window for the wireless PCI card is shown on the first folder of the utility windows. Click on the "Link Information" tab to monitor the network status of the wireless adapter, including the BSSID, current channel, transmission rate used, transmission/receiving throughput, link quality, and signal strength condition.



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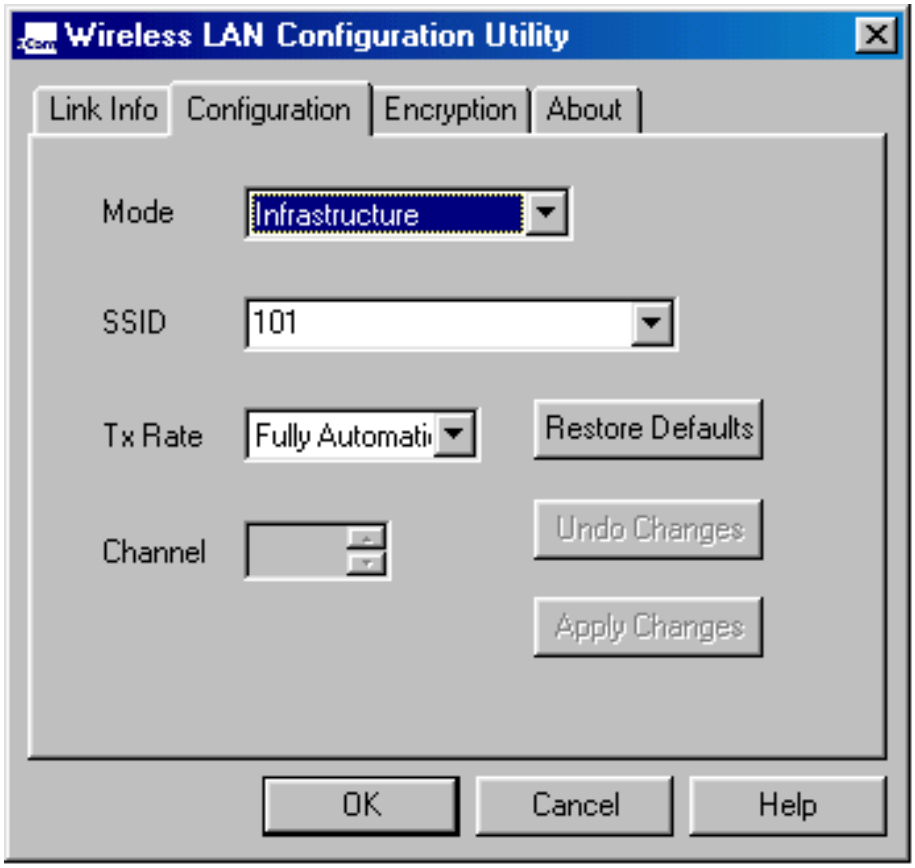
Configuration Screen

The Configuration screen allows you to check and modify the configuration of the adapter.



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The user-configurable parameters are:

- **Mode** - Set the station operation mode to AdHoc for network configurations that do not have any access points, or to Infrastructure for configurations with access points ("Ad hoc" is the default setting).
- **SSID** - Input an SSID number if the roaming feature is enabled ("101" is the default setting).
- **Tx Rate** - Indicates the communication rates. Select appropriate transmission speed to match your wireless LAN settings ("Fully Automatic" is the default setting).
- **WEP** - For more secure data transmission, select "Enabled" to use WEP security. The advanced Wired Equivalent Privacy (WEP) is implemented in this card to prevent unauthorized access. However, for normal use it is recommended to retain the factory-set "Disabled" WEP. ("Disabled" is the default setting).
- **Channel** - If you are setting up an Ad hoc wireless LAN, set the channel number to the same radio channel as that used by the other wireless clients in your group. However, if you are connecting to a network via an access point, then use the same channel as that used by the access point (access point default: 3).

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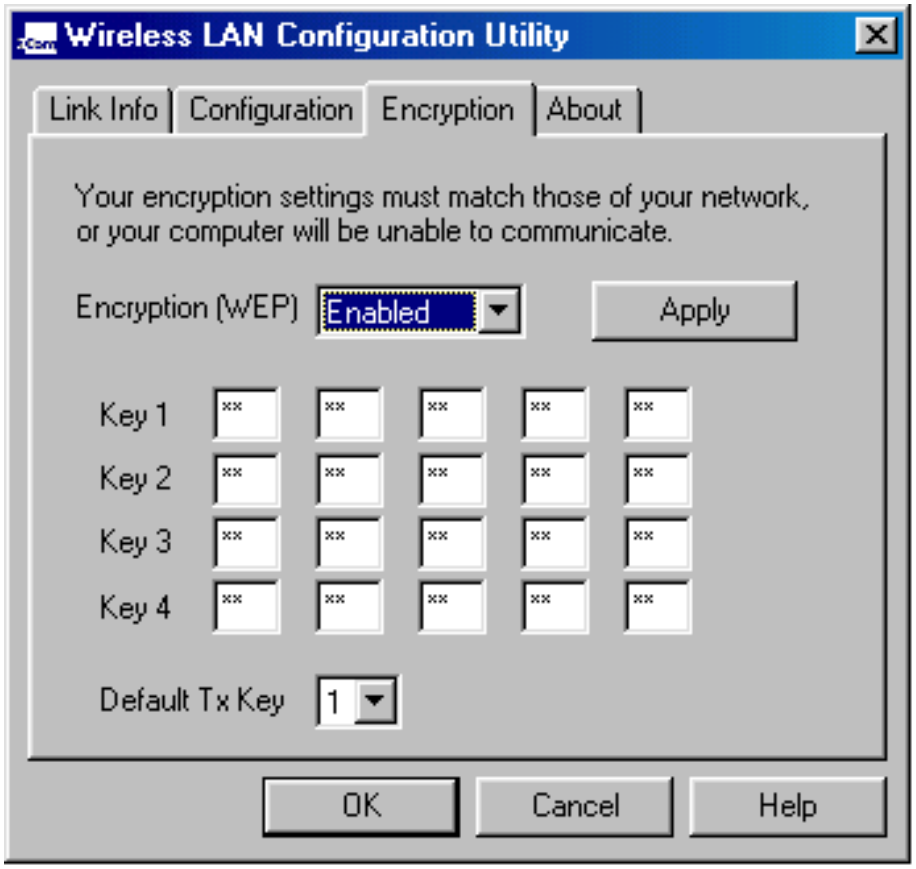
Encryption Screen

The WEP (Wired Equivalent Privacy) implemented in 3Com's wireless PCI card is based on an RC4 encryption algorithm and provides a 40-bit security key to ensure data confidentiality. This WEP security protects your wireless LAN against eavesdropping and unauthorized access by hackers or other intruders. If the WEP is in use, the WEP key is required for connecting to an access point or listening to messages that pass through the air.



To use the WEP function, take the following steps:

1. **Click on the *Encryption* tab to set up WEP security keys.**
2. **Select *Enabled* for the *WEP* field.**
3. **Select one encrypted key (from Key 1 to Key 4) as your default key.**
4. **Click the *Apply* button.**

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5 TROUBLESHOOTING

Introduction

This chapter describes troubleshooting procedures you can perform to solve basic problems.

Preliminary Troubleshooting

Check the following items before contacting 3Com Technical Support.

PCI Compatibility

Some PCI computers are not self-configuring and require you to perform some or all of the following functions by motherboard jumper changes and/or BIOS Setup program configuration:

- Make sure your BIOS correctly supports the PCI Local Bus Specification v2.0 or later and upgrade your computer BIOS to the latest version.
- Verify that the PCI slot is an enabled bus-master slot and not a slave PCI slot. In some computers, the PCI slot must be configured to enable bus mastering. Refer to your computer's manual and check the PCI BIOS Setup program to be sure the PCI slot is an enabled bus-master slot.
- In some computers, you may be required to disable Plug-n-Play (PnP) in the BIOS Setup program if resources are not properly assigned between installed cards.
- Some computers may require you to reserve interrupts and memory addresses for installed ISA cards to prevent PCI adapters from using the same settings. Refer to your computer's manual and check the PCI BIOS Setup program configuration options for ISA cards.

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- Make sure the PCI slot is configured to support INTA.
- Be sure that INTA for the slot is assigned to a free interrupt (IRQ) number.
- If it still does not work, remove the wireless adapter. Delete the appropriate system file (see list below) from c:\windows\system:
  - Windows 9x: cw10.sys
  - Windows 2000: cw10nt.sys
  - Windows Me: cw10nt.sys

  Go to "Control Panel" and delete the wireless PCI card from your network configuration menu. Restart your computer and reinstall the card as described in Chapter 2.

Network Connection Problems

If the Link LED on the wireless PCI card does not light, or if you cannot access any network resources from the computer, check the following:

- Make sure the correct software driver is installed for your operating system. If necessary, try reinstalling the driver.
- Make sure the computer and other network devices are receiving power.
- The access point you want to attach to may be defective. Try using another access point.
- If you cannot access a Windows or NetWare service on the network, check that you have enabled and configured the service correctly. If you cannot connect to a particular server, be sure that you have access rights and a valid ID and password.
- If you cannot access the Internet, be sure you have configured your system for TCP/IP.

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If your wireless station cannot communicate with a computer in the Ethernet LAN when configured for Infrastructure mode, check the following:

- Make sure the access point which the station associated with is powered on.
- Make sure your wireless station is configured with the same operating radio channel as the access point.
- If you still cannot connect, change the access point and all the stations within the BSS to another radio channel.
- Make sure the BSSID is the same as the access point for a station with roaming disabled, or the SSID is the same as the access point for a station with roaming enabled.

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6 TECHNICAL SPECIFICATIONS

Specifications

General Specifications

Functional Criteria	
Data Rate:	1, 2, 5.5, 11 Mbps
Transmission Mode	Half duplex
Network Connection	IEEE 802.11b - wireless
Operating Range	Up to 30m (100 ft) at 11Mbps Up to 100m (300 ft) at 5.5 Mbps or lower
Interrupt	INTA
Radio Signal	
Signal Type	Direct Sequence Spread-Spectrum (DSSS)
Operating Frequency	USA & Canada: 2.400-2.4835 GHz Europe: 2.400-2.4835 GHz Japan: 2.400-2.497 GHz
Sensitivity	1, 2, 5.5 Mbps: -80 dBm 11 Mbps: -76 dBm (typical)
Modulation	CCK, BPSK, QPSK
Physical Characteristics	
Power Consumption	5V, 480 mA transmit 360 mA receive
Dimensions	178 x 120 x 20 mm (7 x 4.7 x 0.8 in)
Antenna	Built-in
LED Indicator	AdHoc, Infrastructure, AP link
Host Interface	PCI Specification 2.1
Standards Conformance	IEEE 802.11b
Environmental	
Temperature	Operating: 0 to 50˚ C (32 to 122˚ F) Storage: 0 to 70˚ C, (32 to 158˚ F)
Humidity	5 to 80% (non-condensing)
Vibration/Shock/Drop	IEC 68-2-34, IEC 68-2-27, IEC 68-2-32

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Certification

CE Mark	EN55022 Class B, EN 55024, IEC 61000-4-2/3/4/6/11
Emissions	FCC Part 15(B), ETS 300-328, RCR STD-33 A

Software Drivers

NDIS Drivers	Windows 95 Windows 98 Windows 2000 Windows NT 4.0 Windows Millennium Edition

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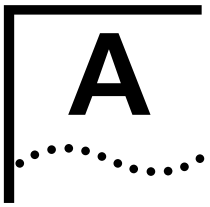

TECHNICAL SUPPORT

Online Technical Services

3Com offers worldwide product support 24 hours a day, 7 days a week, through the following online systems:

- World Wide Web site
- 3Com FTP site

World Wide Web Site

Access the latest networking information on the 3Com Corporation World Wide Web site by entering the URL into your Internet browser:

http://www.3com.com/

This service provides access to online support information such as technical documentation and software library, as well as support options ranging from technical education to maintenance and professional services.

3Com FTP Site

Download drivers, patches, software, and MIBs across the Internet from the 3Com public FTP site. This service is available 24 hours a day, 7 days a week.

To connect to the 3Com FTP site, enter the following information into your FTP client:

- Hostname: **ftp.3com.com** (or **192.156.136.12**)
- Username: **anonymous**
- Password: **<your Internet e-mail address>**

A user name and password are not needed with Web browser software such as Netscape Navigator and Internet Explorer.

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Support from Your Network Supplier

If additional assistance is required, contact your network supplier. Many suppliers are authorized 3Com service partners who are qualified to provide a variety of services, including network planning, installation, hardware maintenance, application training, and support services.

When you contact your network supplier for assistance, have the following information ready:

- Product model name, part number, and serial number
- A list of system hardware and software, including revision levels
- Diagnostic error messages
- Details about recent configuration changes, if applicable

If you are unable to contact your network supplier, see the following section on how to contact 3Com.

Support from 3Com

If you are unable to obtain assistance from the 3Com online technical resources or from your network supplier, 3Com offers technical telephone support services. To find out more about your support options, please call the 3Com technical telephone support phone number at the location nearest you.

When you contact 3Com for assistance, have the following information ready:

- Product model name, part number, and serial number
- A list of system hardware and software, including revision levels
- Diagnostic error messages
- Details about recent configuration changes, if applicable

Below is a list of worldwide technical telephone support numbers:

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Country	Telephone Number	Country	Telephone Number
Asia Pacific Rim		P.R. of China	10800 61 00137 or 021 6350 1590
Australia	1 800 678 515		
Hong Kong	800 933 486	Singapore	800 6161 463
India	+61 2 9937 5085	S. Korea	
Indonesia	001 800 61 009	From anywhere in S. Korea:	00798 611 2230
Japan	03 5783 1270	From Seoul:	(0) 2 3455 6455
Malaysia	1800 801 777	Taiwan, R.O.C.	0080 611 261
New Zealand	0800 446 398	Thailand	001 800 611 2000
Pakistan	+61 2 9937 5085		
Philippines	1235 61 266 2602		
Europe			
From anywhere in Europe, call:	+31 (0)30 6029900 phone +31 (0)30 6029999 fax		
From the following European countries, you may use the toll-free numbers:			
Australia	1800 678 515	New Zealand	0800 446 398
Austria	0800 297468	Norway	800 11376
Belgium	0800 71429	P.R. of China	10 800 61 00137
Denmark	800 17309	Phillipines	1235 61 266 2602
Finland	0800 113153	Poland	0800 3111206
France	0800 917959	Portugal	0800 831416
Germany	0800 1821502	Singapore	800 616 1463
Hong Kong	800 933 486	South Africa	0800 995014
Hungary	06800 12813	South Korea	00798 611 2230
Indonesia	001 80061 009	Spain	900 983125
Ireland	1 800 553117	Sweden	020 795482
Israel	1 800 9453794	Switzerland	0800 55 3072
Italy	800 879489	Taiwan, R.O.C.	0080 611 261
Malaysia	1800 801777	Thailand	001 800 611 2000
Netherlands	0800 0227788	U.K.	0800 966197
Latin America			
Argentina	AT&T +800 666 5065	Mexico	AT&T +800 778 5573
Brazil	0800 13 3266	Peru	AT&T +800 666 5065
Chile	0800 13 3266	Puerto Rico	800 666 5065
Colombia	98012 2127	Venezuela	AT&T +800 666 5065
North America	1 800 527 8677		

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Returning Products for Repair

Before you send a product directly to 3Com for repair, you must first obtain a Return Materials Authorization (RMA) number. Products sent to 3Com without RMA numbers will be returned to the sender unopened, at the sender's expense.

To obtain an RMA number, call or fax:

Country	Telephone Number	Fax Number
Asia, Pacific Rim	65 543 6500	65 543 6348
Europe, South Africa, and Middle East	+ 44 1442 435860	+ 44 1442 435718
From the following European countries, you may call the toll-free numbers; select option 2 and then option 2:		
Australia	1800 678 515	
Austria	0800 297468	
Belgium	0800 71429	
Denmark	800 17309	
Finland	0800 113153	
France	0800 917959	
Germany	0130 821502	
Hong Kong	800 933 486	
Hungary	06800 12813	
Indonesia	001 80061 009	
Ireland	1 800 553117	
Israel	1 800 9453794	
Italy	800 879489	
Malaysia	1800 801777	
Netherlands	0800 0227788	
New Zealand	0800 446 398	
Norway	800 11376	
P.R. of China	10 800 61 00137	
Phillipines	1235 61 266 2602	
Poland	0800 3111206	
Portugal	0800 831416	
South Africa	0800 995014	
South Korea	00798 611 2230	
Spain	900 983125	
Sweden	020 795482	
Switzerland	0800 55 3072	
Taiwan, R.O.C.	0080 611 261	
Thailand	001 800 611 2000	
U.K.	0800 966197	
Latin America	1 408 326 2927	1 408 326 3355
U.S.A. and Canada	1 800 527 8677	1 408 326 7120

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3Com AirConnect 11 Mbps Wireless LAN

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3Com Corporation
5400 Bayfront Plaza
Santa Clara, CA 95054
U.S.A.
(408) 326-5000
January 3, 2000

Regulatory Compliance Information

RADIO FREQUENCY INTERFERENCE REQUIREMENTS

This device has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the Federal Communications Commissions Rules and Regulation. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If the equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

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CSA Statement (Canada)

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of Industry Canada.

Le présent appareil numérique n'émet pas de bruits radio-électriques dépassant les limites applicables aux appareils numériques de la classe B prescrites dens le Règlement sur le brouillage radioélectrique édicté par l'Industrie.

Japan VCCI Class B Compliance

This is a Class B equipment based on the standard of the Voluntary Control Council for Interference from Information Technology Equipment (VCCI). If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.

BSMI Class A Compliance (Taiwan)

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這是甲類的資訊產品,在居住的
環境中使用時,可能會造成射頻
干擾,在這種情況下,使用者會
被要求採取某些適當的對策。

CE Mark Declaration of Compliance

This is to certify that this product complies with ISO/IEC Guide 22 and EN45014. This product complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC, and carries the CE Mark accordingly.

This product conforms to the following specifications:

EMC:	EN55022(1988)/CISPR-22(1985)	class B
	IEC 61000-4-2(2000)	4kV CD, 8kV AD
	IEC 61000-4-3(2000)	3V/m
	IEC 61000-4-4(2000)	1kV - (power line)
	IEC 61000-4-6(2000)	3Vrms
	IEC 61000-4-11(2000)	3Vrms

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